



Rocky Flats Environmental Technology Site  
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OUTGONG LTR NO.

February 15, 1996

DOE ORDER # None

96RF010L3

96-RF-01013  
96-RM-ER-0021-KH

[illegible]

C. A. Patnoe  
Kaiser-Hill, L.L.C.  
Rocky Flats Environmental Technology Site  
P. O. Box 464, Bldg. T130C  
Golden, CO 80402-0464

Action: Review and sign attached Control Plan

SIGNATURE FROM AIR QUALITY MANAGEMENT MANAGER ON EMISSION CONTROL PLAN FOR  
DAM A-3 AND A-4 CONSTRUCTION PROJECTS (KH00003NS1A) – JEL-026-96

Per the direction of Air Quality Management, Rocky Mountain Remediation Services, L.L.C. (RMRS) Sitewide Surface Water has prepared an Air Emissions Control Plan for construction work scheduled to occur from March 1 through April, 15 1996 at the Pond A-3 and A-4 dams. Aaron McManigle from your organization reviewed the plan and his comments were incorporated.

Please review the Control Plan and sign in the block provided in Section 6. If you have any questions regarding the plan or the construction project, please contact Ian Paton at extension 2680 or Jim FitzSimmons at extension 6264.

Thank you for your attention to this matter.

AL Purnomo for JEL

John E. Law, P. E.  
Remediation Manager  
Sitewide Actions

IBP:dqi

Attachment:  
As Stated

cc:  
A. P. McManigle - Kaiser-Hill

ACTION ITEM STATUS  
☐ OPEN    ☐ CLOSED  
☐ PARTIAL

LTR APPROVALS: *TP*

22.015.F

ORIG & TYPIST INITIALS:

1BP -  
RF-46469 (Rev. 11/95)



ADMIN RECCRD

BZ-A-000368

## **Air Emissions Control Plan: Pond A-4 Outlet Works Upgrade Project**

### **1. Introduction**

This Control Plan contains a description of measures that will be taken to control fugitive dust emissions during planned construction projects at Dams A-3 and A-4. These projects include the Dam A-4 outlet works upgrade with temporary coffer dam, and the Dam A-3 spillway repair.

### **2. Project Descriptions**

The Dam A-4 outlet works upgrade will require 375 cubic yards of material to be excavated around the job site. The excavation will consist of removal and replacement of riprap on the dam fence, foundations for thrust blocks, and foundations for stem and pipe supports running up the face of the dam. The coffer dam within Pond A-4, used to keep the outlet works construction area free from water, will require approximately 900 yards of fill material to be hauled on the site. Construction of these projects is scheduled to begin on March 1, 1996 and continue through April 15, 1996.

The Dam A-3 spillway repair project will require hauling 550 cubic yards of material onto the site, including number 6 base, fine and course aggregate, and riprap. Construction of this project is also scheduled to begin March 1, 1996 and continue through April 15, 1996.

### **3. Air Quality Compliance Issues**

The primary objective is to comply with Colorado Air Quality Control Commission Regulation No. 1 while performing the construction projects. Based on the projected time frame for construction, this project is classified as a temporary activity. It was determined, by means of a January 22, 1996 conference call between RFETS Air Quality Management (AQM) and Richard Fox of the Colorado Department of Public Health and Environment, Air Pollution Control Division (CDPHE, APCD) that an APEN and air construction permit are not required for this project as long as the following conditions are met:

- the construction of a coffer dam for Dam A-4 and the Dam A-4 outlet modification and Dam A-3 spillway repair/modification projects are temporary activities;
- abatement control measures are used to control fugitive dust during these activities, such as sweeping of paved roads and watering of unpaved roads and disturbed areas;
- a control plan is developed describing all available practical methods which are technologically feasible and economically reasonable and which reduce, prevent, and control fugitive particulate emissions from the source or activity into the atmosphere;
- the control plan must be in place and a copy of the control plan submitted to AQM prior to startup of these activities; and
- a log to document the frequency of the abatement methods must be used to control fugitive dust on a daily basis.

#### 4. Project Information

Sections 4.1 through 4.3 provide information summaries for the Dam A-4 coffer dam, Dam A-4 outlet works upgrade and A-3 spillway projects.

##### 4.1. Dam A-4 Cofferdam

|  |  |
|--|--|
| Volume of material moved:  | 900 cubic yards                              |
| Types of materials moved:  | Imported soil                                |
| Equipment used:  | Dump trucks<br>Front-end loader<br>Bulldozer |
| Distance over unpaved roads to construction site:<br>(from east inner gate to construction site) | 1 mile                                       |
| Number of trips to complete material transport operation:  | 60   |
| Average hours per day:   | 10   |
| Planned start date:  | March 1, 1996                                |
| Planned completion date:   | April 15, 1996                               |

##### 4.2. Dam A-4 Outlet Works Upgrade

|  |                                   |
|--|-----------------------------------|
| Volume of material moved:  | 375 cubic yards                   |
| Types of materials moved:  | Riprap, riprap bedding, dam soils |
| Equipment used:  | Excavator<br>Crane<br>Bulldozer   |
| Distance over unpaved roads to construction site:<br>(from east inner gate to construction site) | 1 mile                            |
| Number of trips to complete material transport operation:  | 25                                |
| Average hours per day:   | 10                                |
| Planned start date:  | March 1, 1996                     |
| Planned completion date:   | April 15, 1996                    |

##### 4.3. Dam A-3 Spillway Repair

|  |                        |
|--|------------------------|
| Volume of material moved:  | 550 cubic yards        |
| Types of materials moved:  | Riprap, riprap bedding |
| Equipment used:  | Excavator              |
| Distance over unpaved roads to construction site:<br>(from east inner gate to construction site) | 1 mile                 |
| Number of trips to complete material transport operation:  | 37                     |
| Average hours per day:   | 10                     |
| Planned start date:  | March 1, 1996          |
| Planned completion date:   | April 15, 1996         |

## **5. Air Quality Protection Measures**

Dust suppression for unpaved areas and roads will be controlled by water dispersion from a water tank vehicle unless construction project management personnel determine natural precipitation is sufficient to control emissions. The speed of the water dispersion tank vehicle will be limited to less than 20 miles per hour.

If necessary, visible emissions from soil movement shall be controlled by wetting the material in the haul truck or covering the material with a tarp prior to transport. Soil spilled on unpaved and paved haul roads will be cleaned up. Roads will be maintained by placement of road base on transition areas from pavement to gravel to help alleviate dust dispersion upon vehicle impact. A schedule will be developed and a log maintained (attached) showing periodicity of these control measures, the amount of soil moved and number of haul trucks operating each day.

To further ensure emission control, soil movement will not be conducted during adverse windy weather conditions. In addition, Air Quality Management will periodically monitor for airborne fugitive emissions during initial collection and placement of soil, and make recommendations if appropriate.

## **6. Signatures**

\_\_\_\_\_  
C.A. Patnoe  
Manager  
Radian Air Quality Management

\_\_\_\_\_  
Date

\_\_\_\_\_  
J. R. Fitzsimmons  
Project Manager, Dam A-3 Spillway Repair and Dam A-4 Outlet Works Upgrade  
RMRS Sitewide Actions Surface Water

\_\_\_\_\_  
Date

### Log of Dust Abatement Measures: Dam A-3 and A-4 Construction Projects

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